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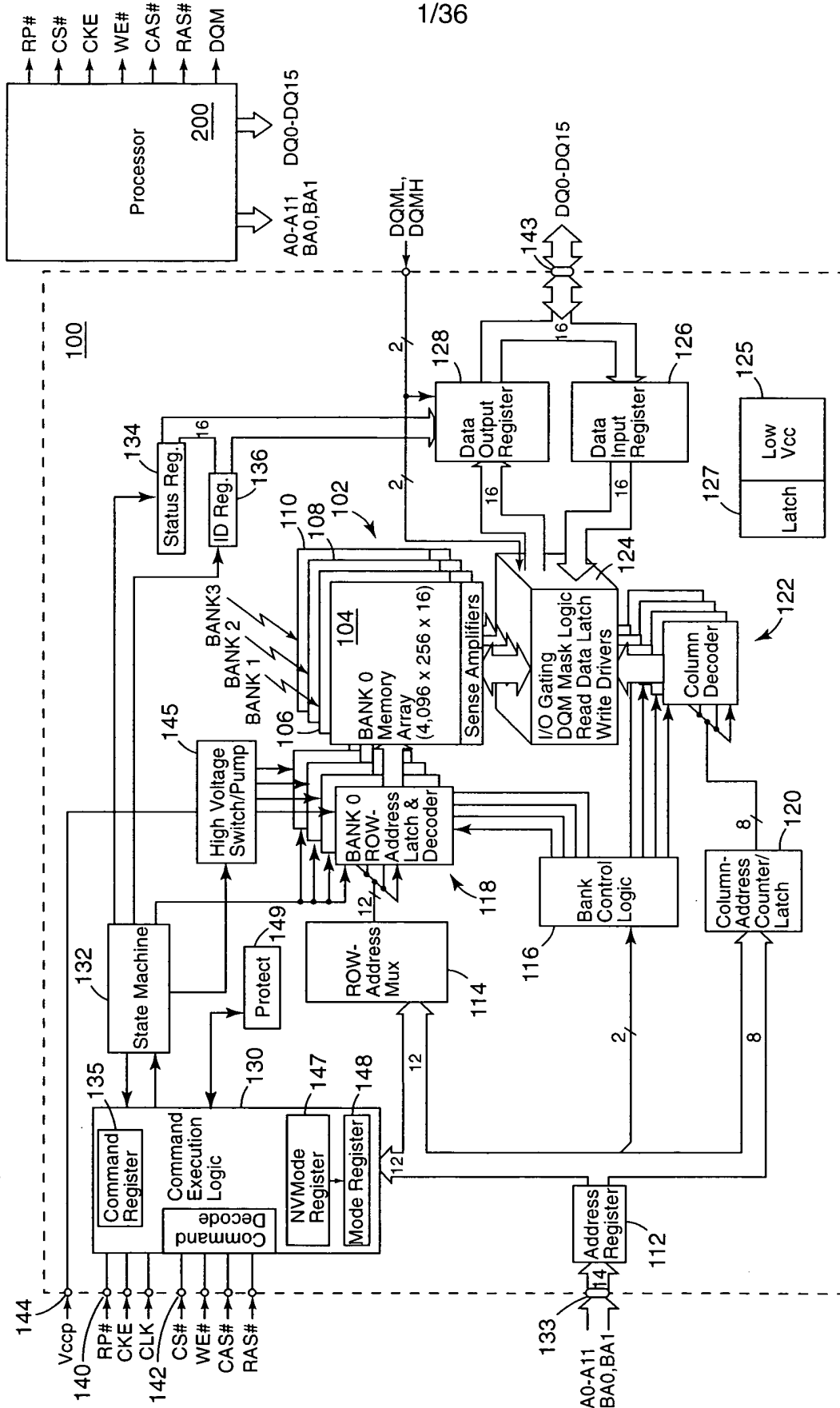


Fig. 1A

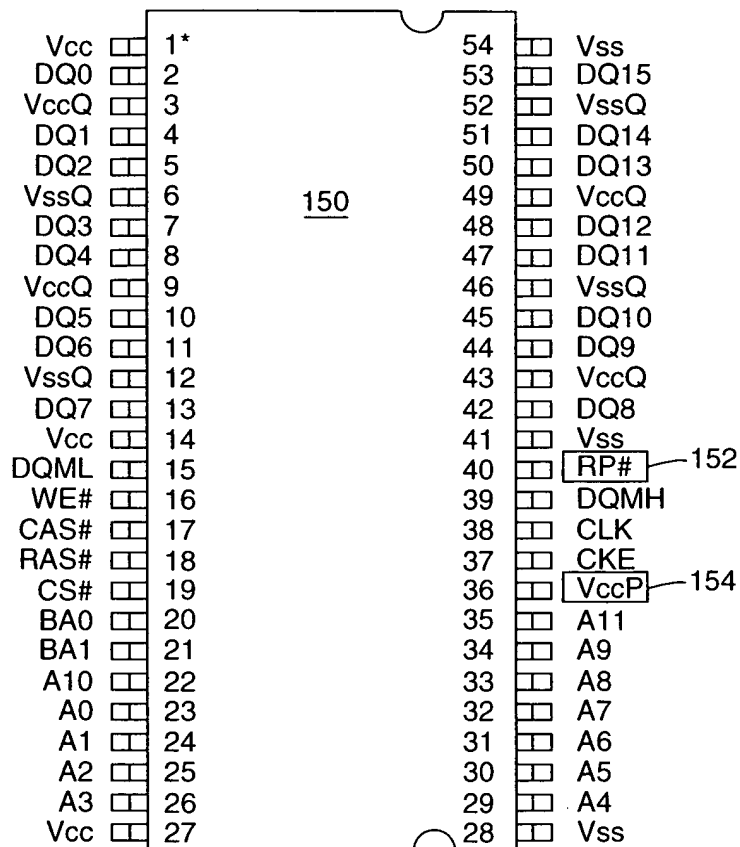


Fig. 1B



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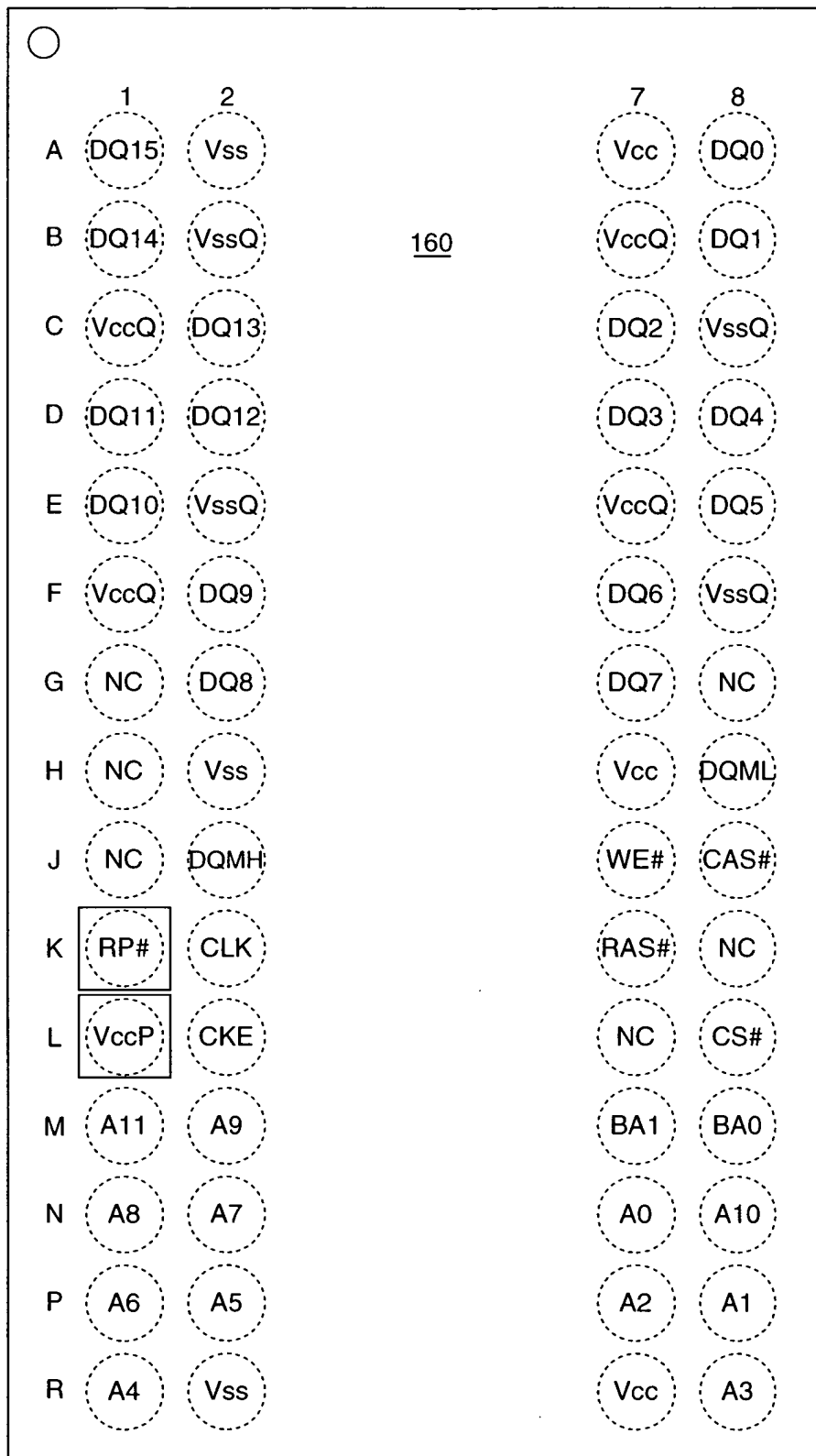


Fig. 1C



First Named Inventor: Frankie F. Roohparvar
ZERO LATENCY-ZERO BUS TURNAROUND SYNCHRONOUS FLASH MEMORY
Atty Docket No. 400.006US01 Serial No. 09/608,580

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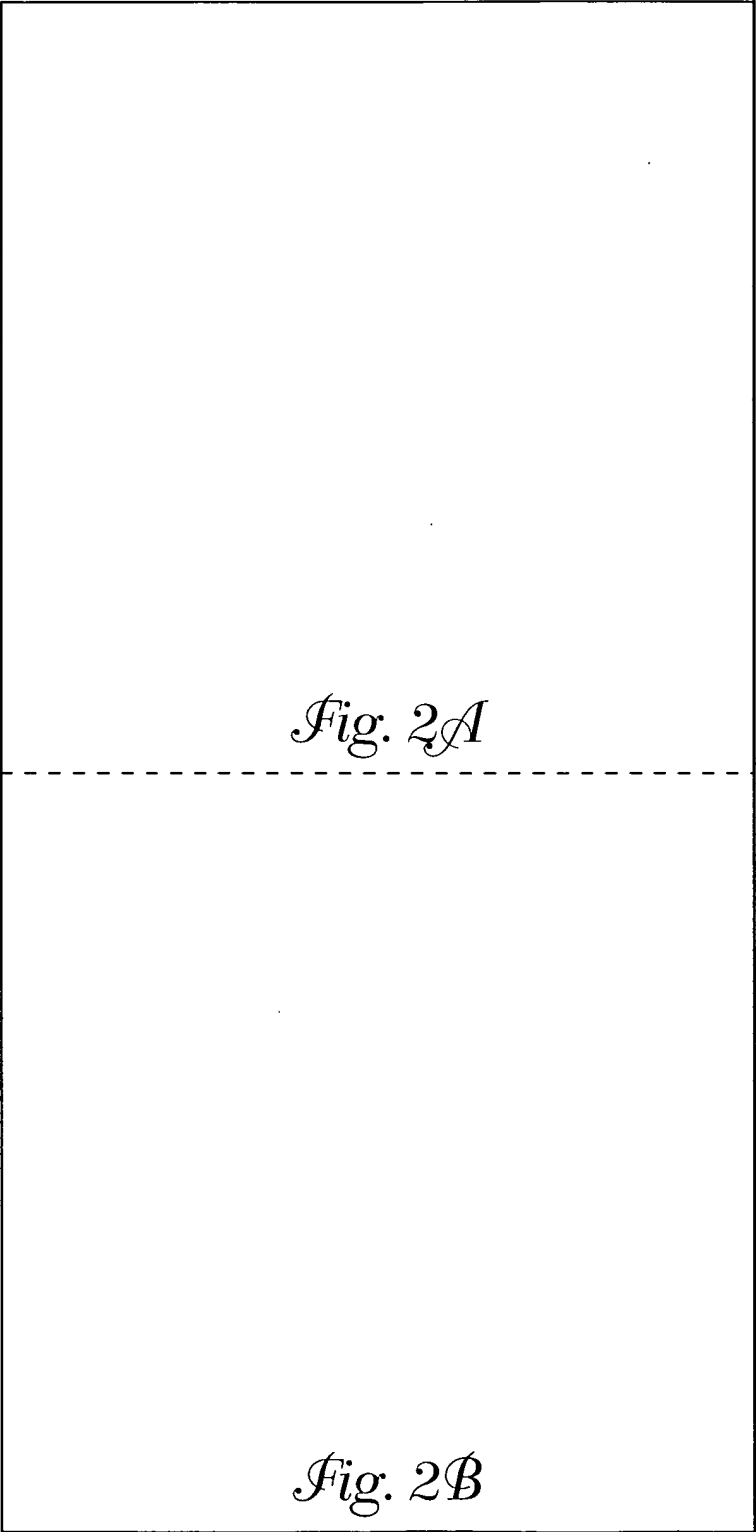


Fig. 2A

Fig. 2B

Fig. 2

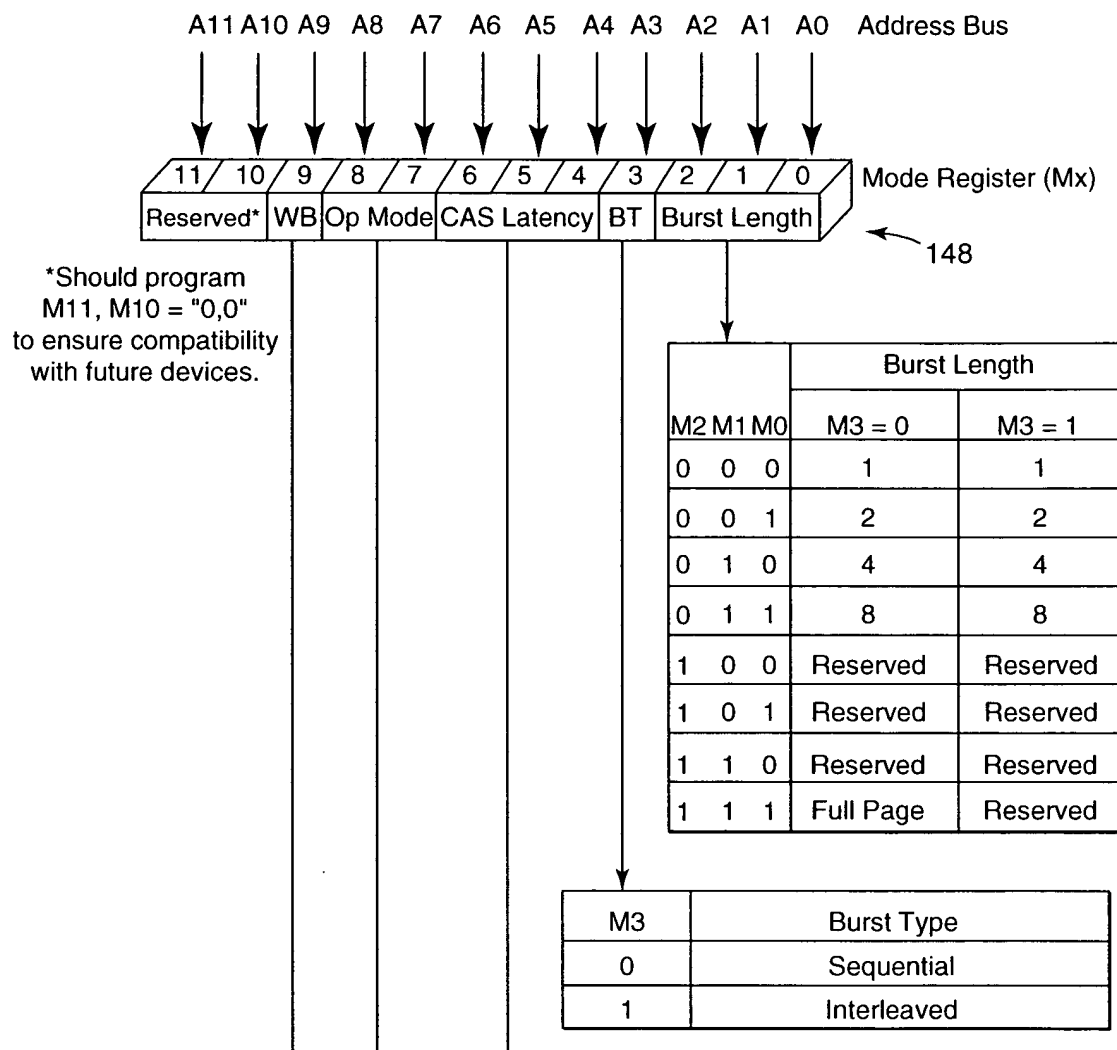


Fig. 2A

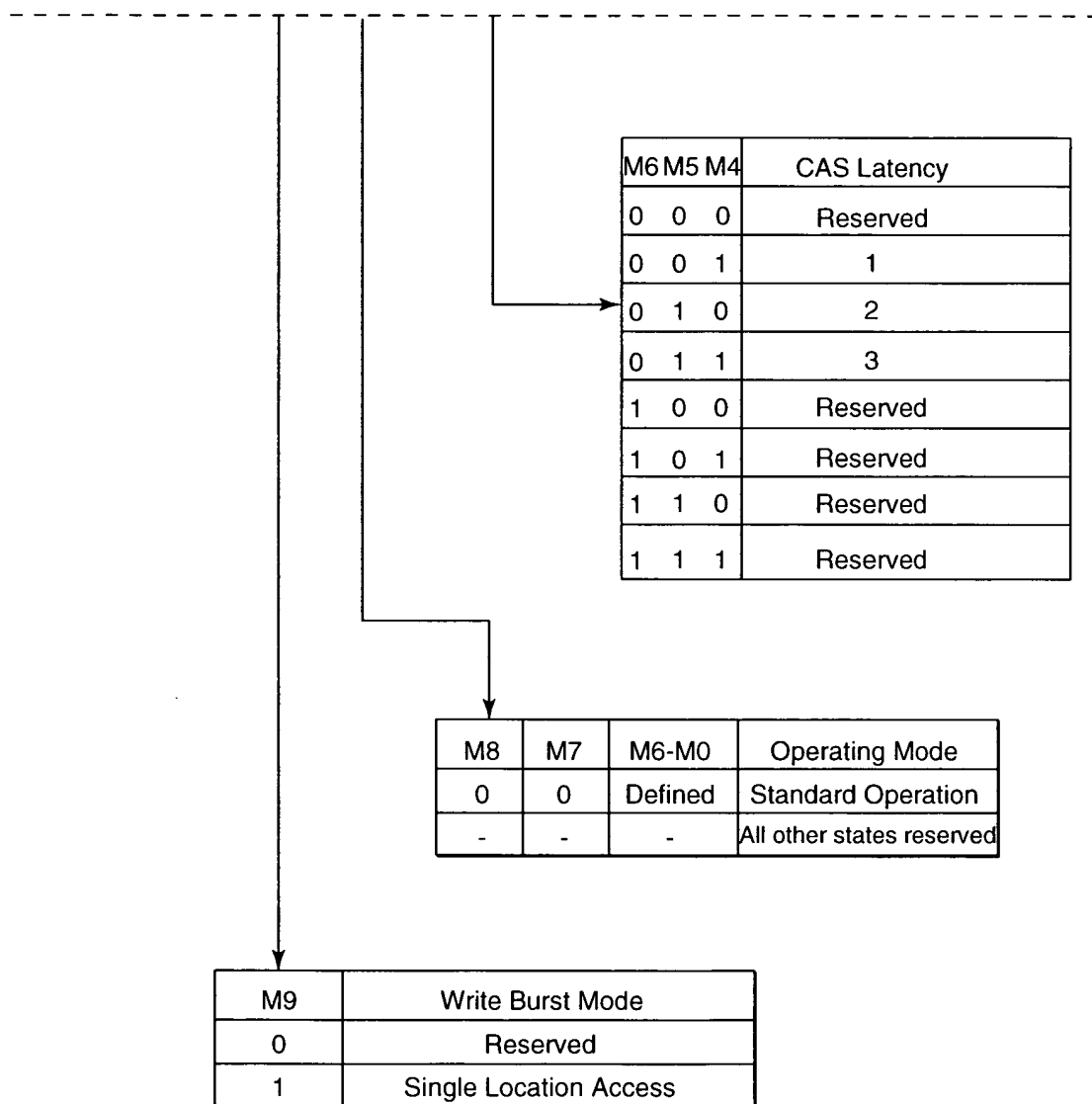


Fig. 2B



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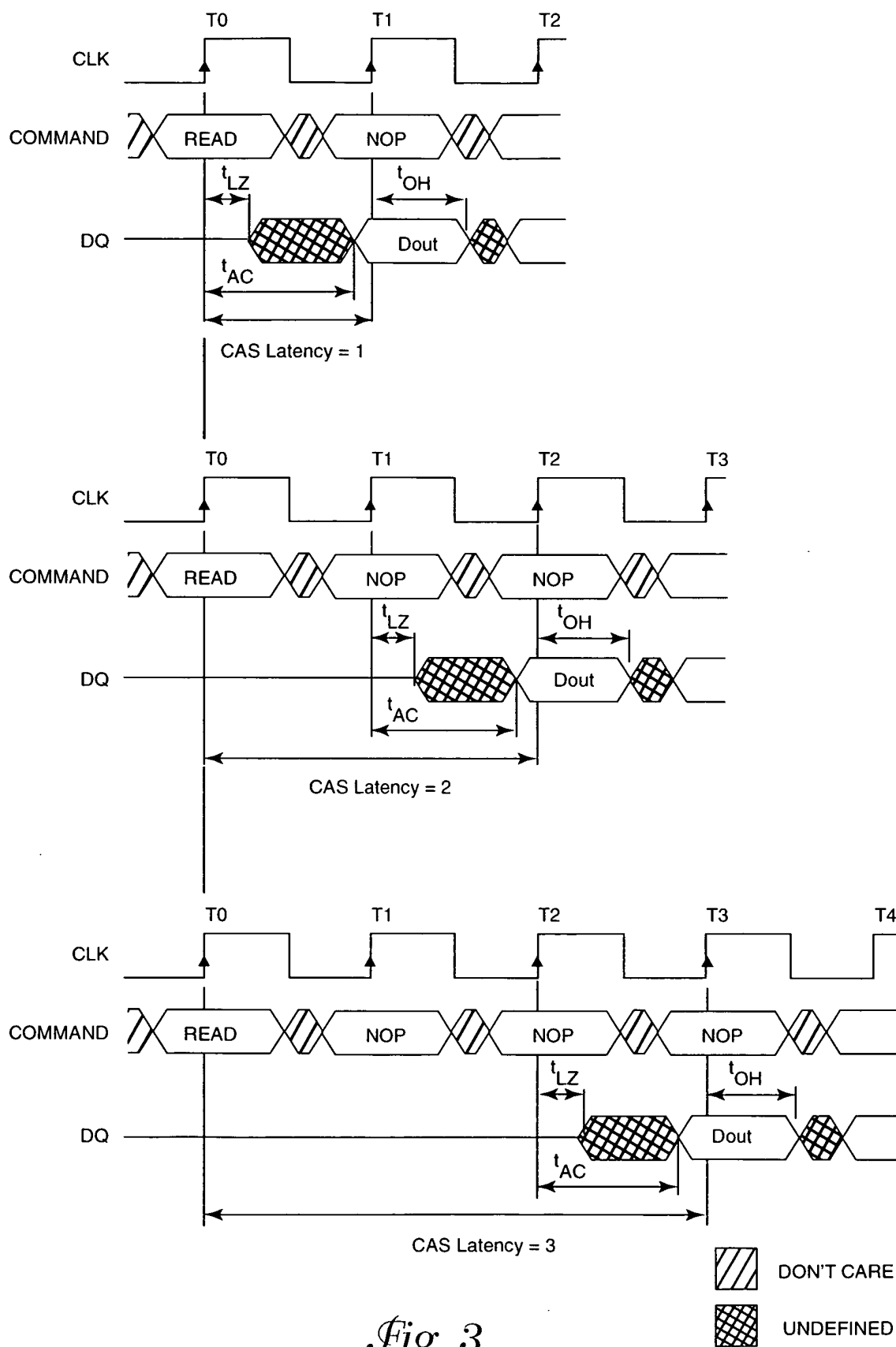


Fig. 3

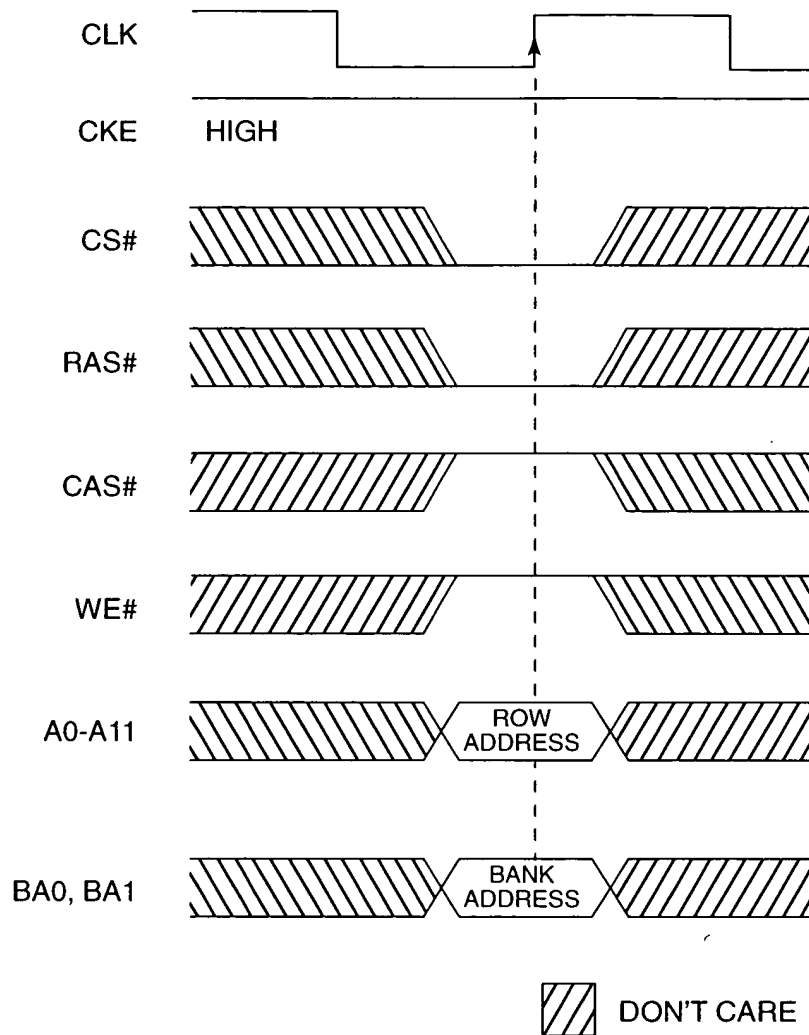


Fig. 4



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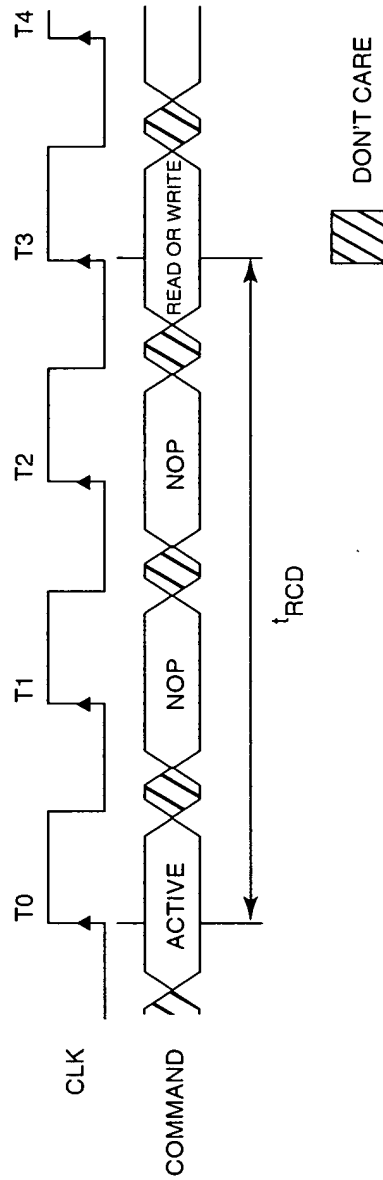


Fig. 5



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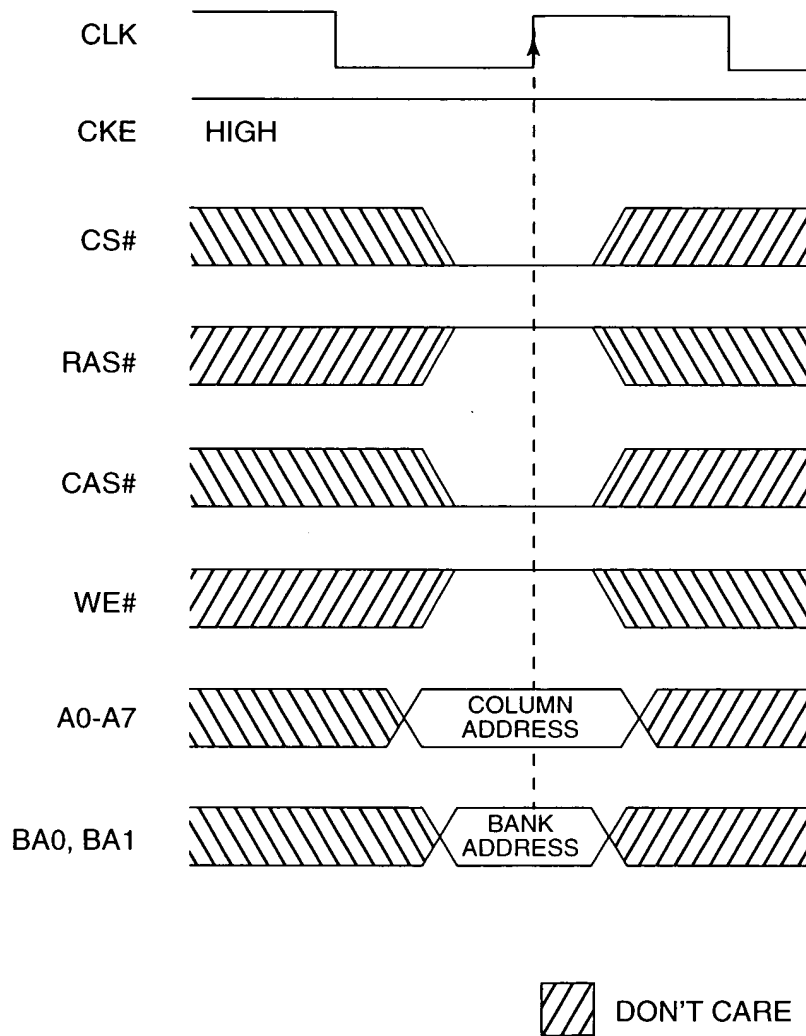


Fig. 6



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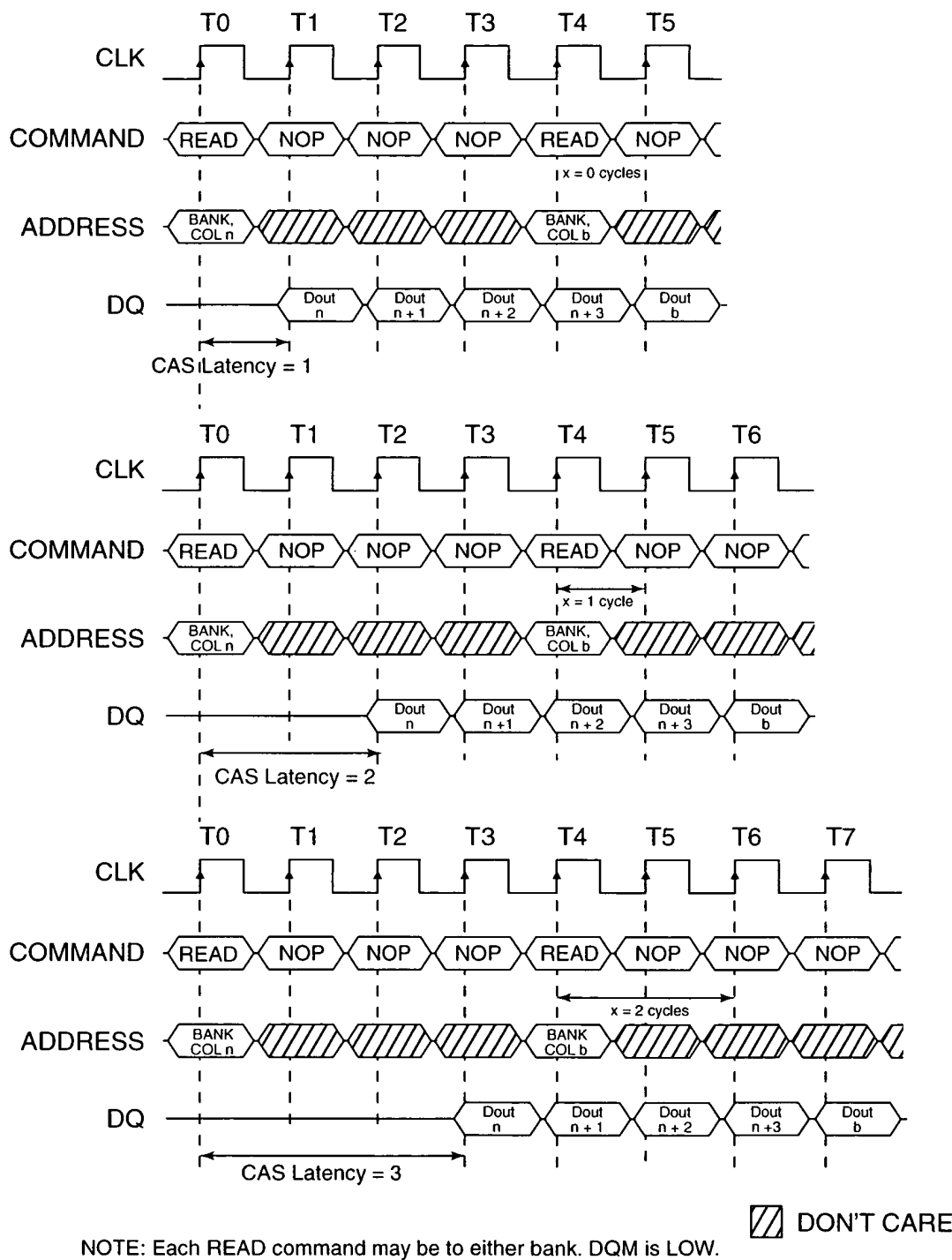


Fig. 7



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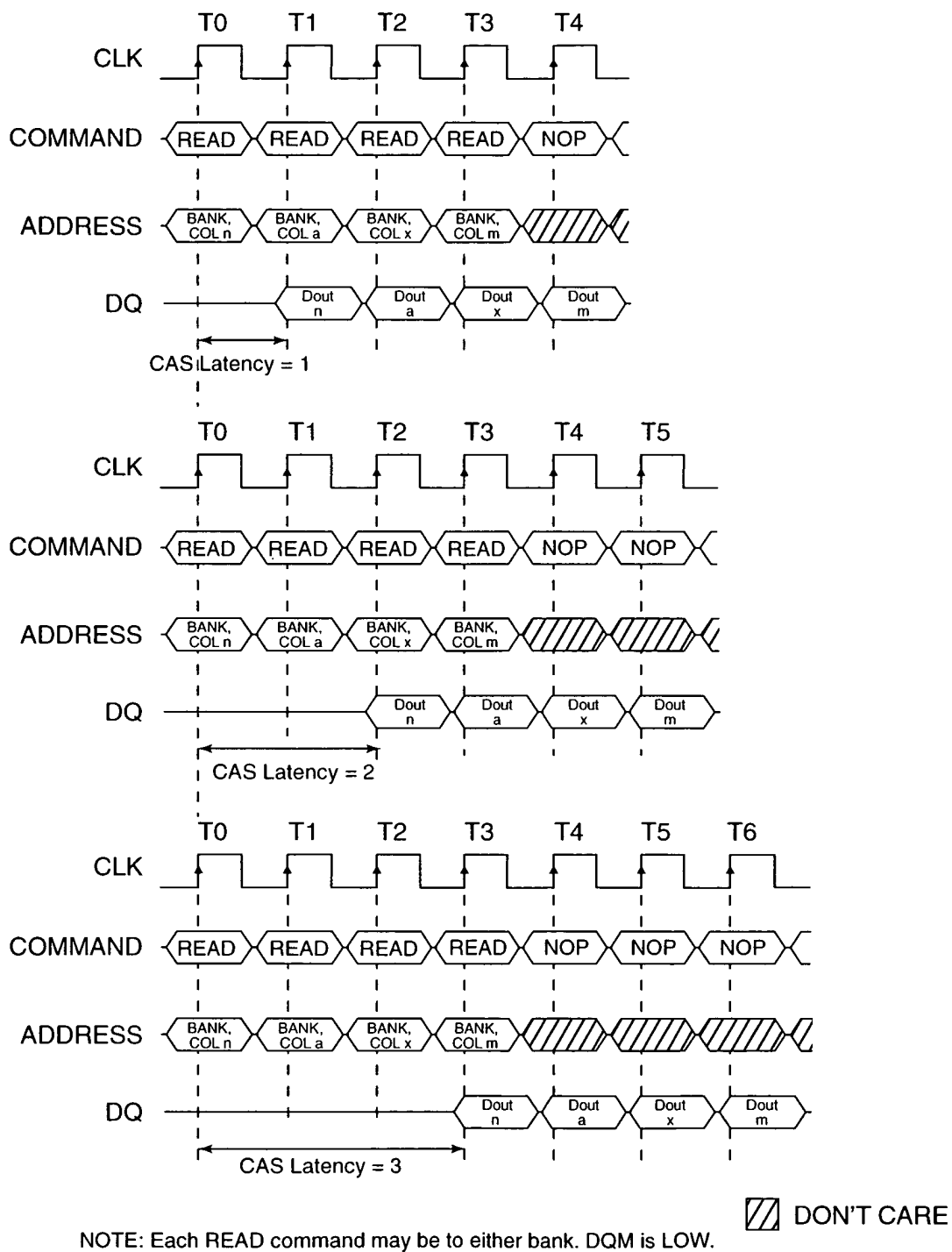
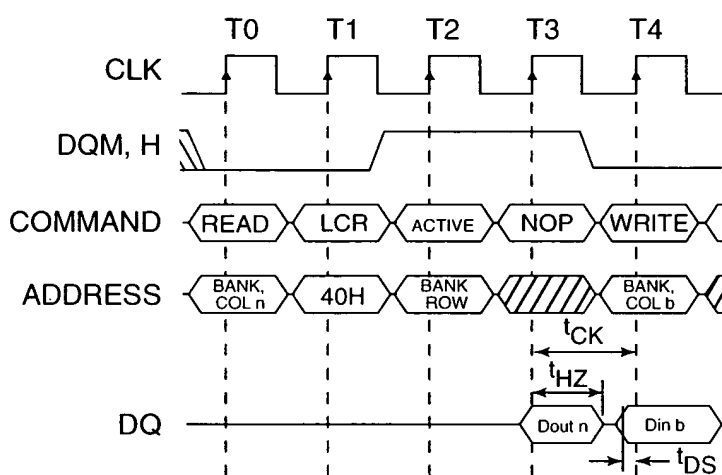
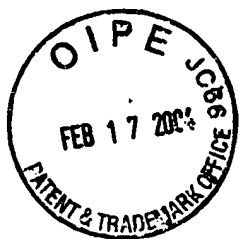


Fig. 8



NOTE: A CAS latency of three is used for illustration. The READ command may be to any bank, and the WRITE command may be to any bank. If a CAS latency of one is used, then DQM is not required.

 DON'T CARE

Fig. 9



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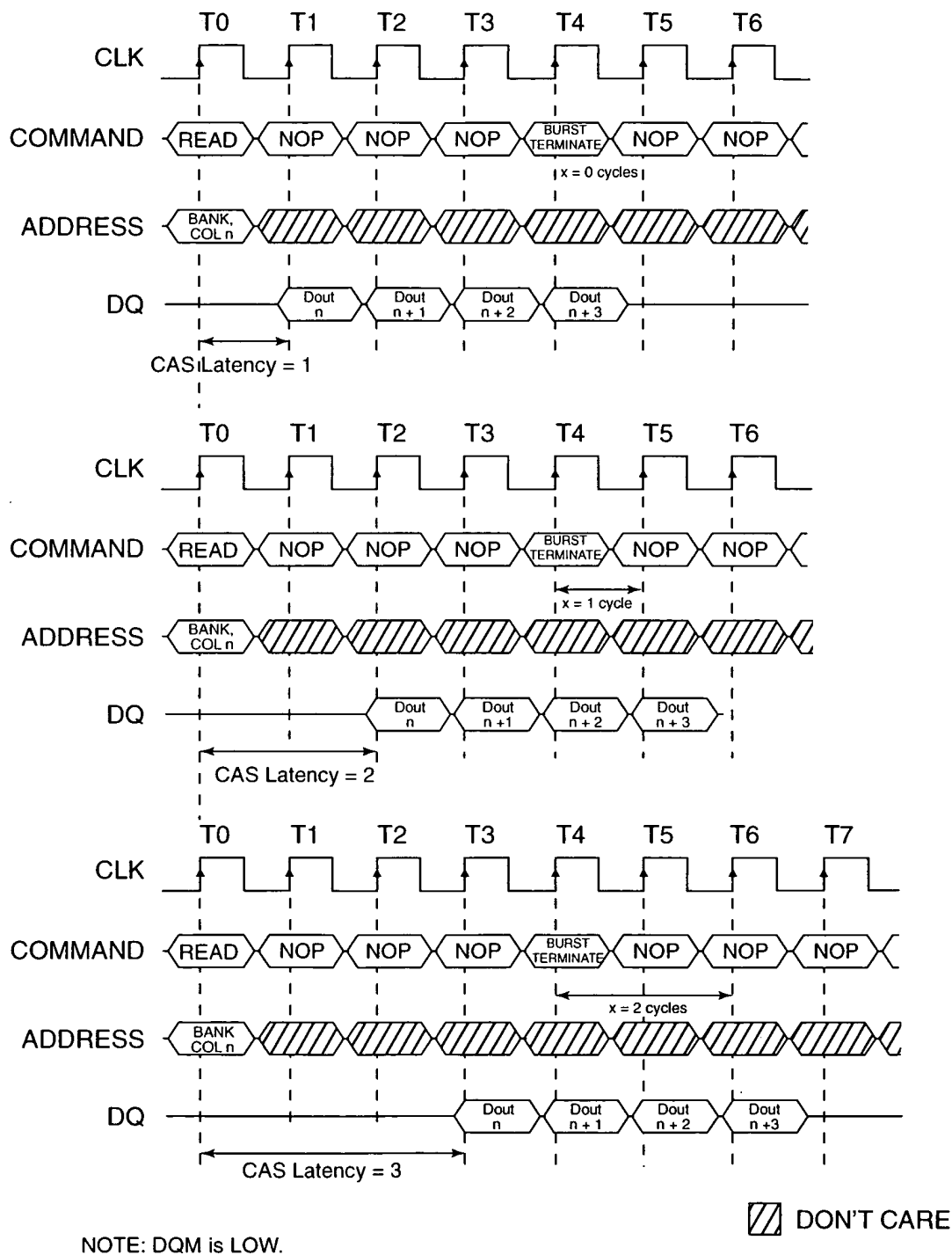


Fig. 10



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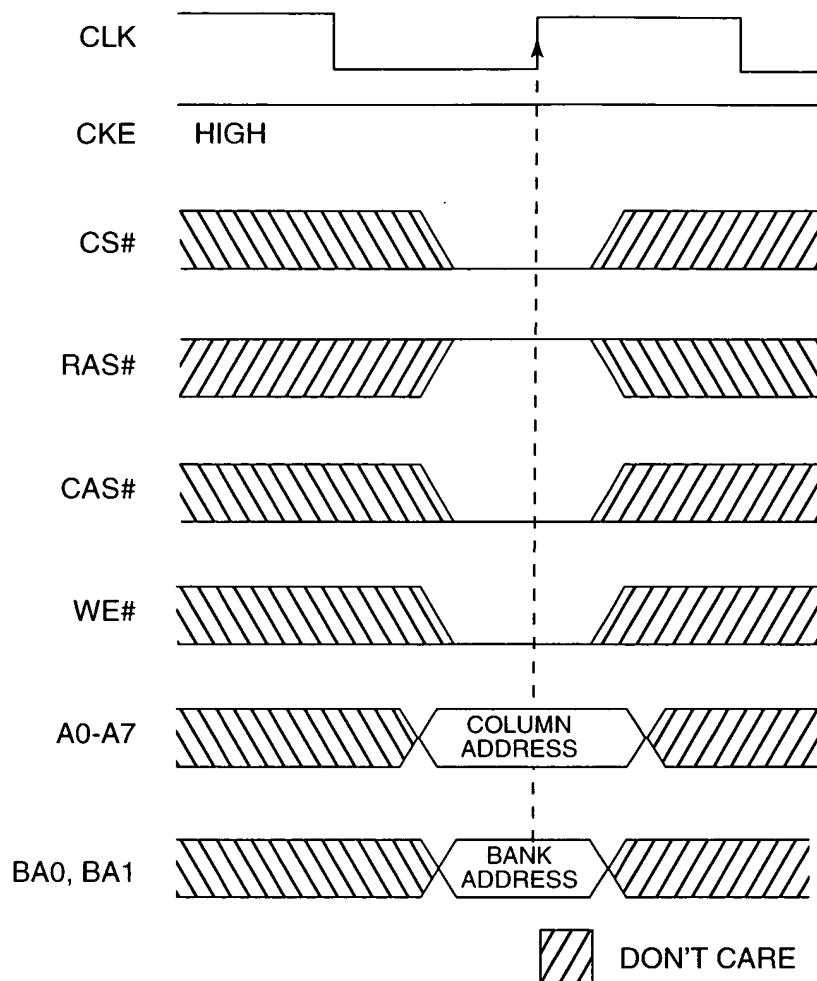
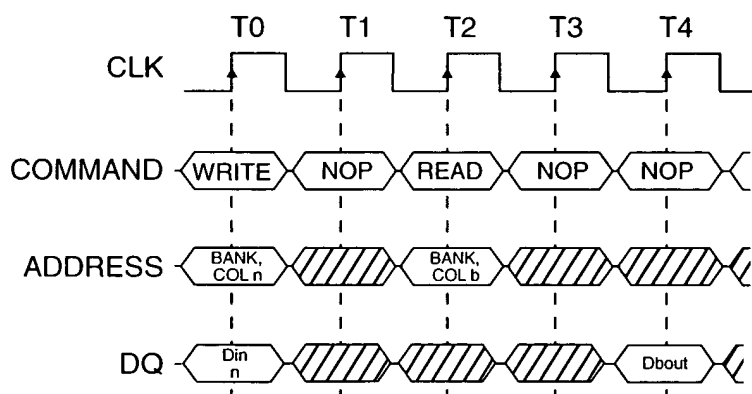


Fig. 11



NOTE: A CAS latency of two is used for illustration. The WRITE command may be to any bank and the READ command may be to any bank. DQM is LOW. A READ to the bank undergoing the WRITE ISM operation may output invalid data.

 DON'T CARE

Fig. 12

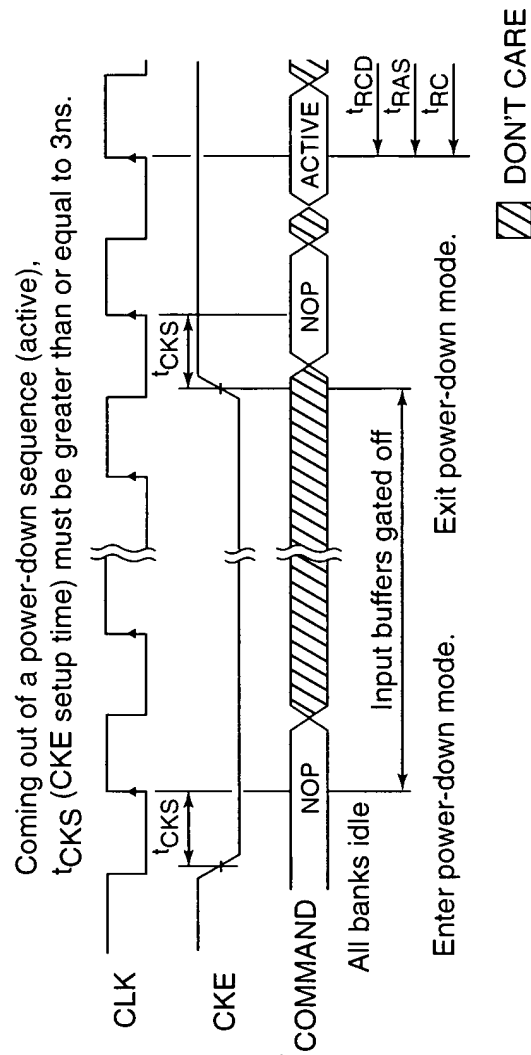


Fig. 13

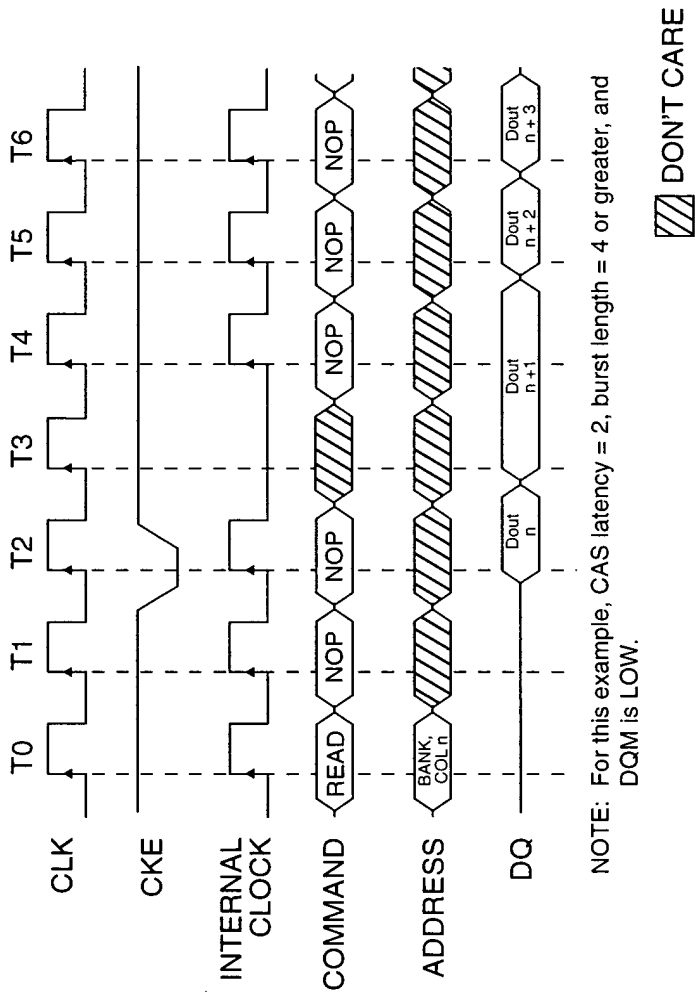



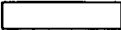
Fig. 14



ADDRESS RANGE

	Bank	Row	Column		
Bank 3	3	FFF	FFH	256K-Word Block	15
	3	C00	00H		
	3	BFF	FFH	256K-Word Block	14
	3	800	00H		
	3	7FF	FFH	256K-Word Block	13
	3	400	00H		
Bank 2	3	3FF	FFH	256K-Word Block	12
	3	000	00H		
	2	FFF	FFH	256K-Word Block	11
	2	C00	00H		
	2	BFF	FFH	256K-Word Block	10
	2	800	00H		
Bank 1	2	7FF	FFH	256K-Word Block	9
	2	400	00H		
	2	3FF	FFH	256K-Word Block	8
	2	000	00H		
	1	FFF	FFH	256K-Word Block	7
	1	C00	00H		
Bank 0	1	BFF	FFH	256K-Word Block	6
	1	800	00H		
	1	7FF	FFH	256K-Word Block	5
	1	400	00H		
	1	3FF	FFH	256K-Word Block	4
	1	000	00H		
Bank 0	0	FFF	FFH	256K-Word Block	3
	0	C00	00H		
	0	BFF	FFH	256K-Word Block	2
	0	800	00H		
	0	7FF	FFH	256K-Word Block	1
	0	400	00H		
	0	3FF	FFH	256K-Word Block	0
	0	000	00H		

Word-wide (x16)

-  Software Lock = Hardware-Lock Sectors
 RP# = V_{HH} to unprotect if either the
 block protect or device protect bit is set.
-  Software Lock = Hardware-Lock Sectors
 RP# = V_{CC} to unprotect but must be V_{HH}
 if the device protect bit is set.

See BLOCK PROTECT/UNPROTECT SEQUENCE for
 detailed information.

Fig. 15



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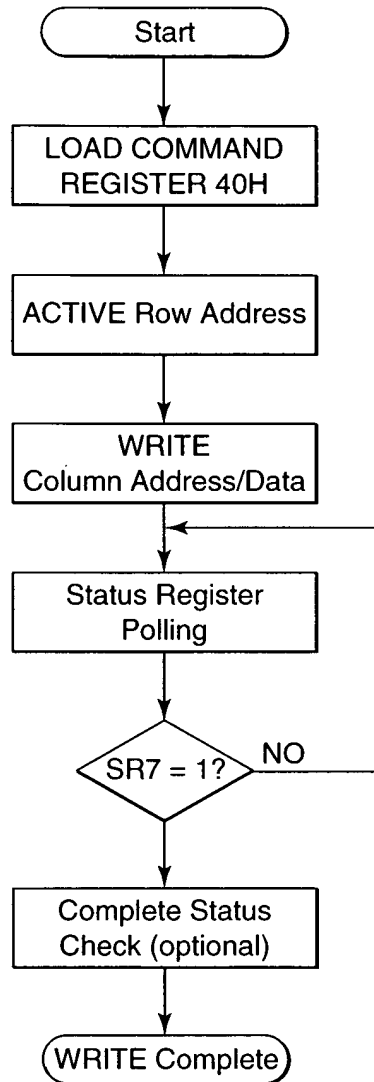


Fig. 16

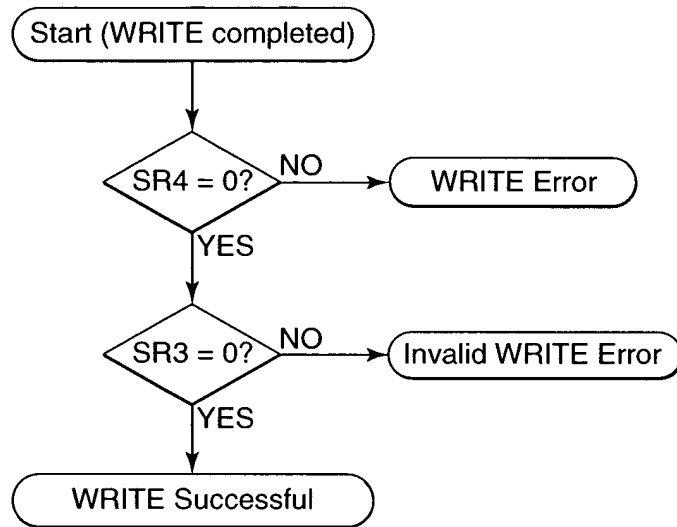
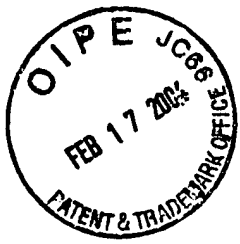
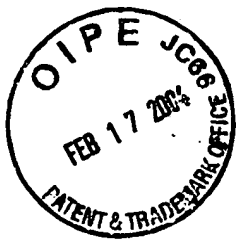


Fig. 17



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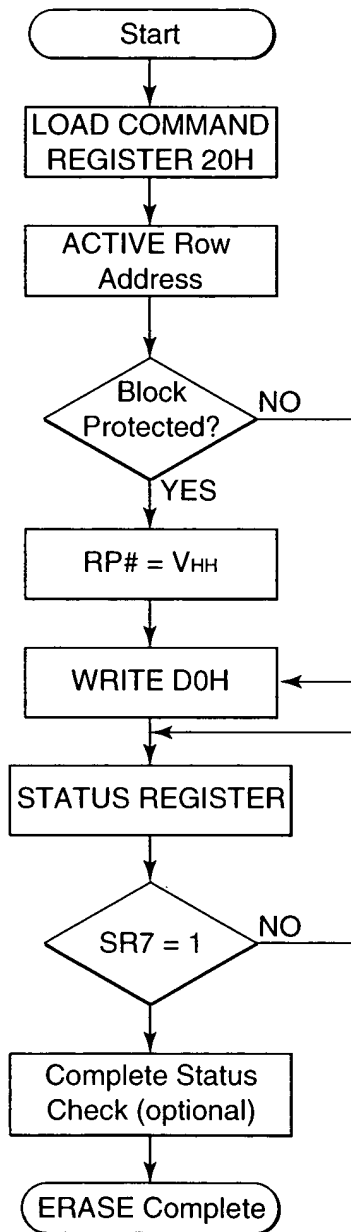


Fig. 18

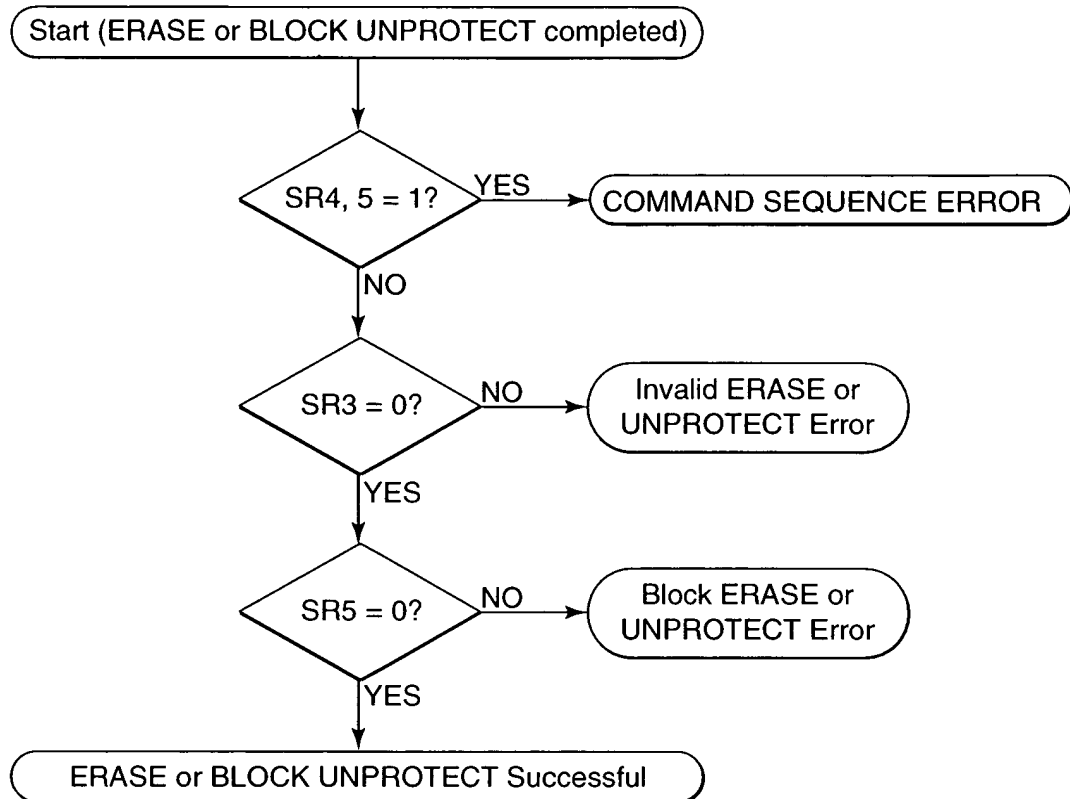
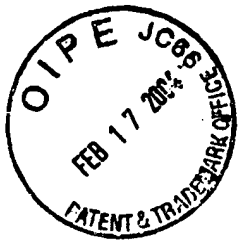


Fig. 19

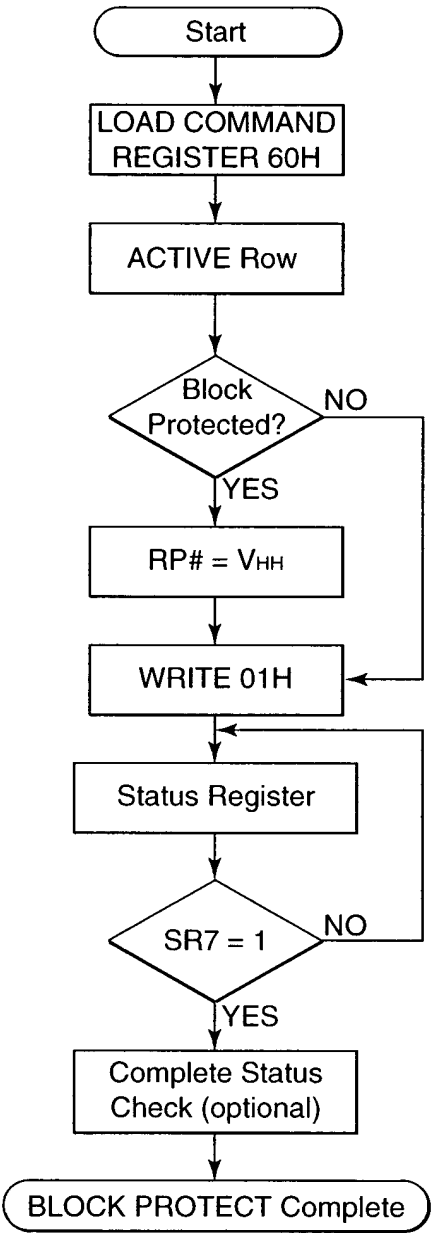
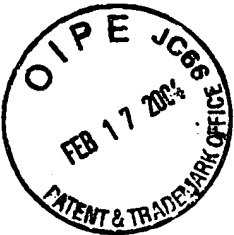


Fig. 20

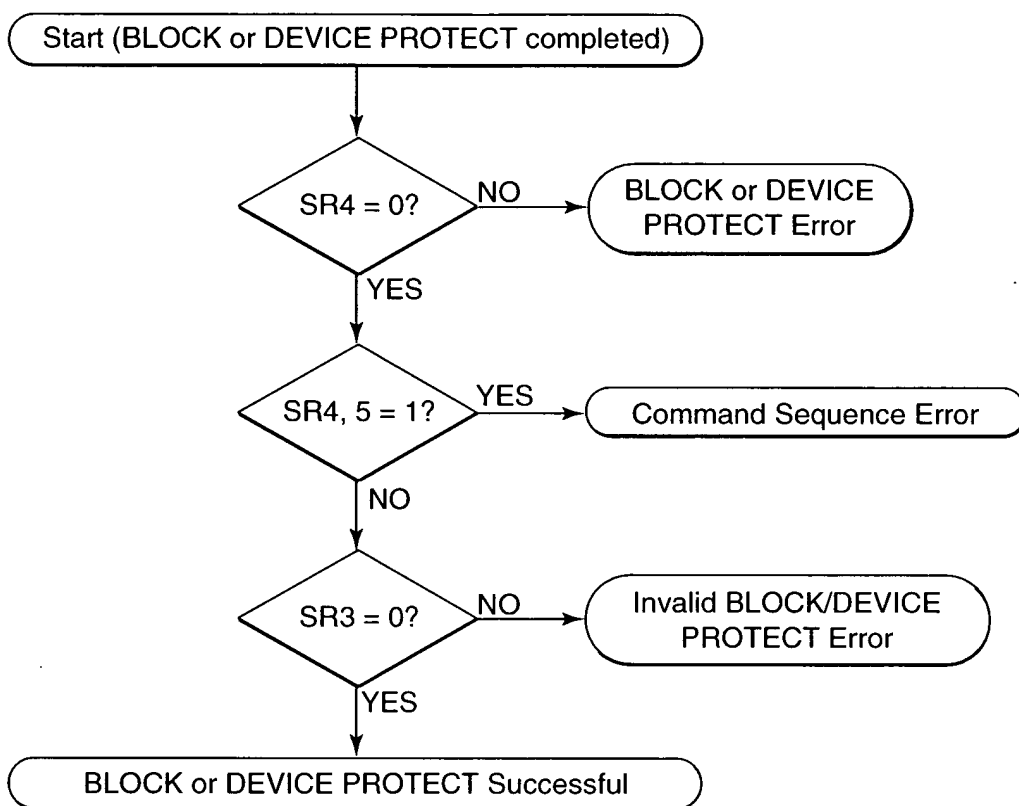
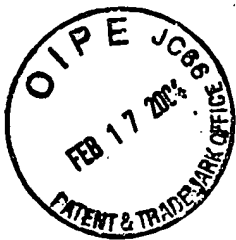


Fig. 21

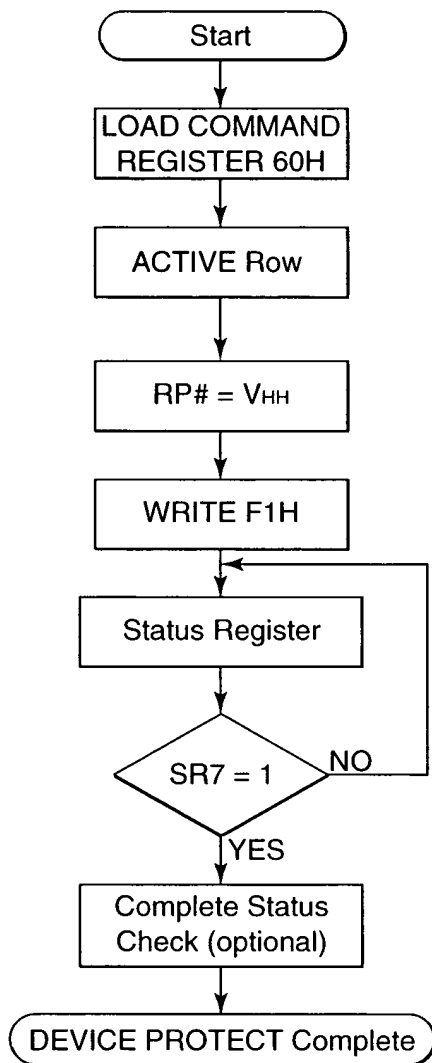


Fig. 22



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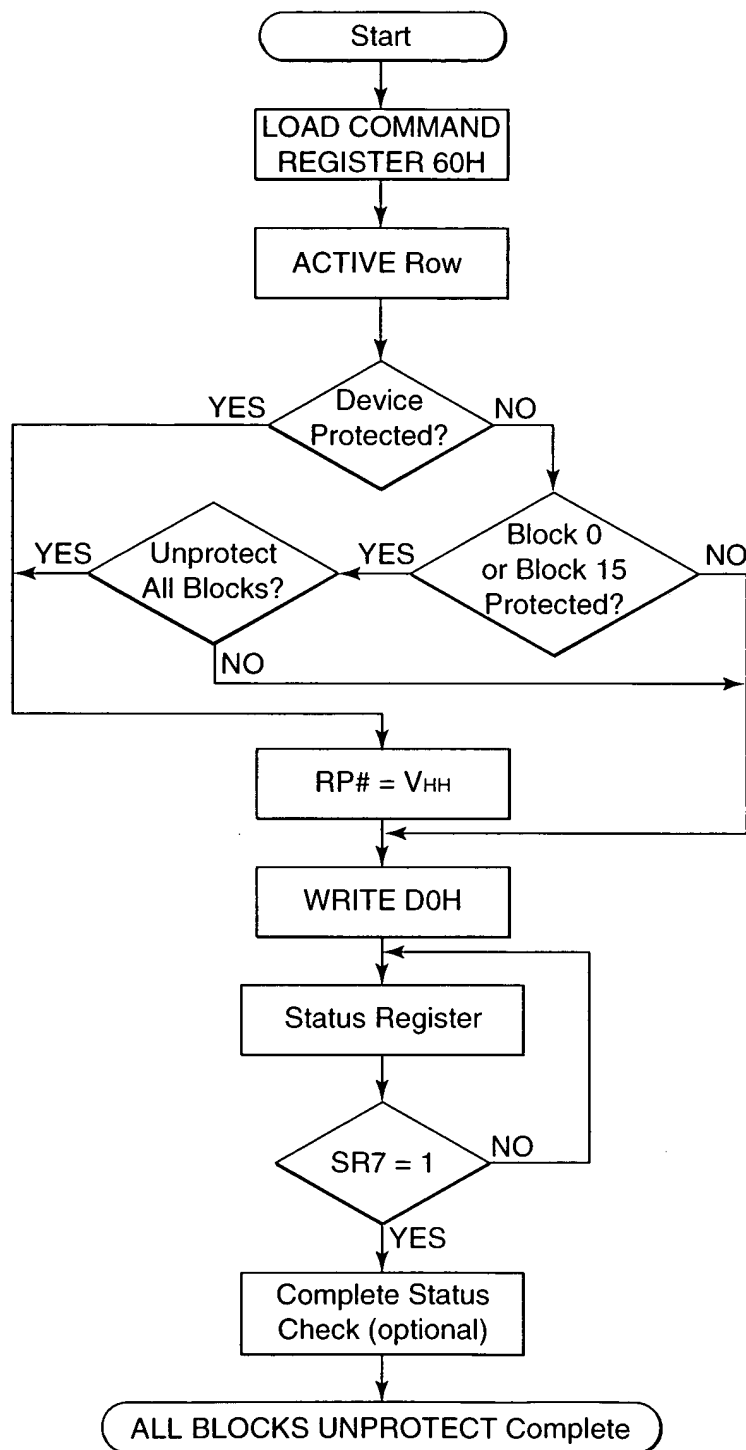


Fig. 23

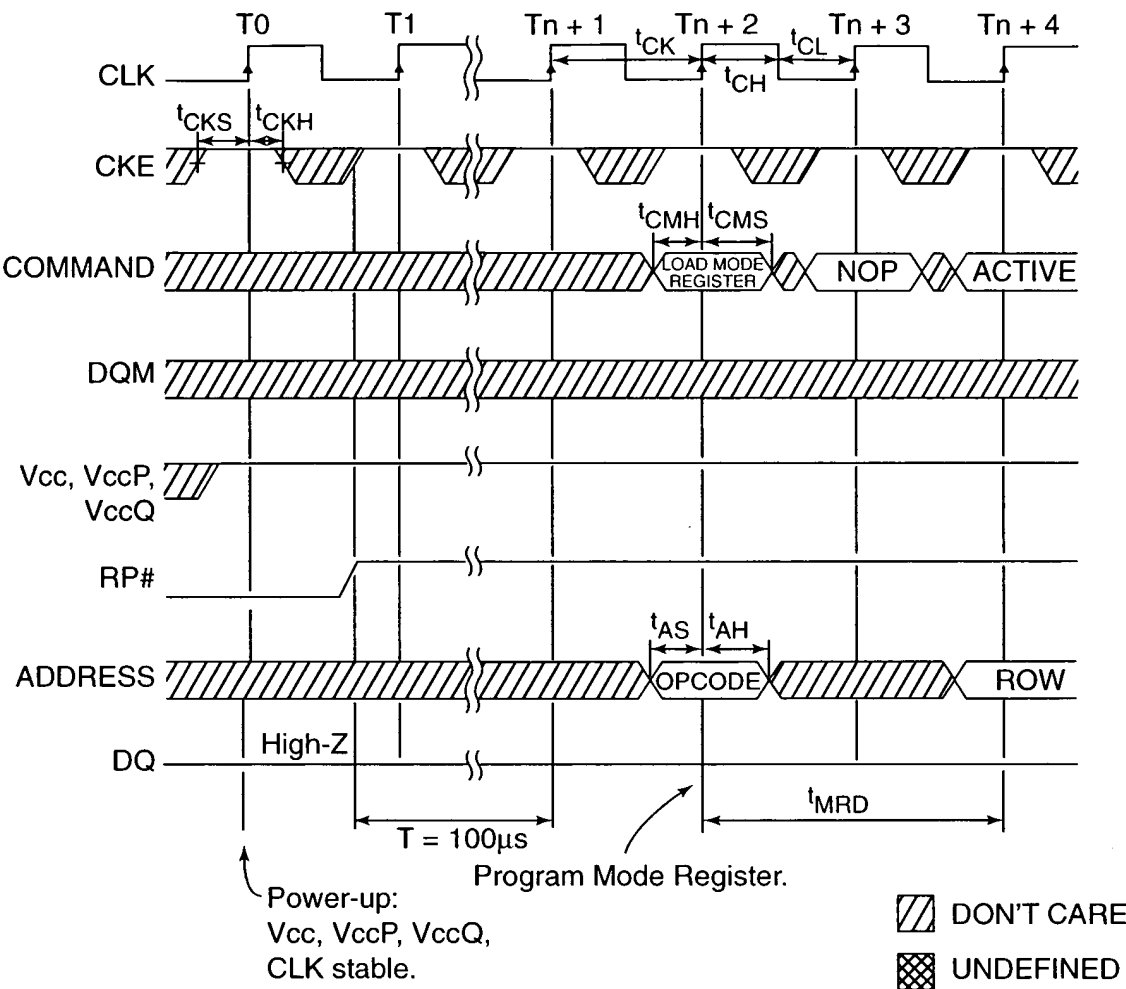


Fig. 24

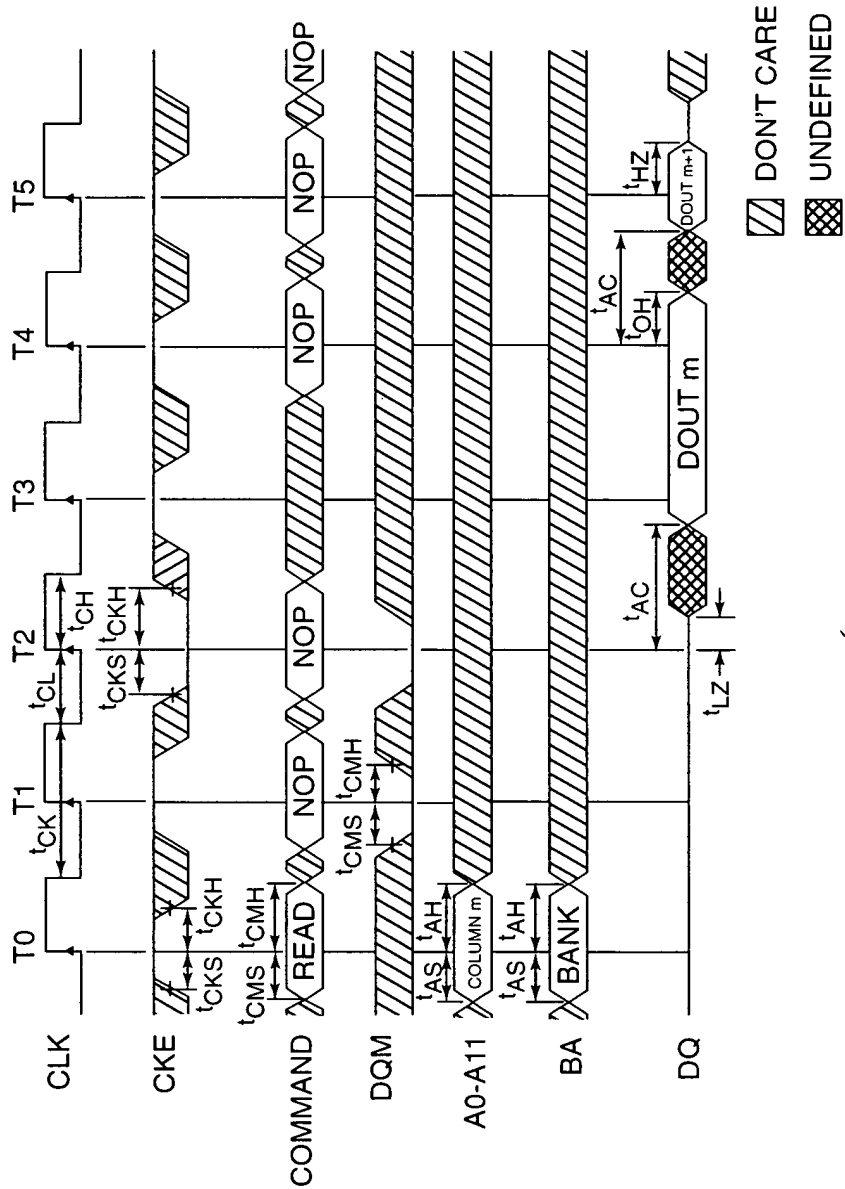


Fig. 25

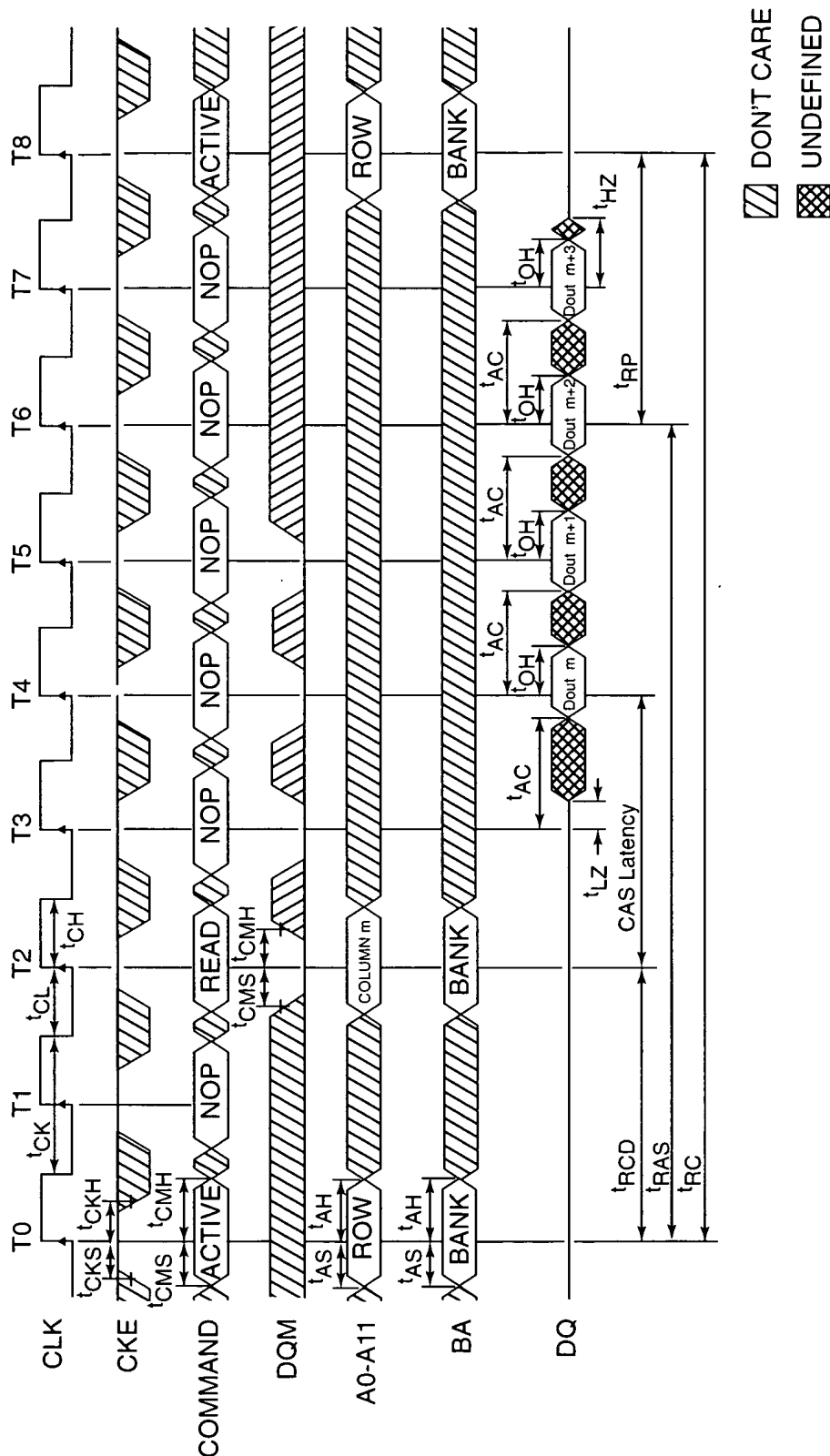


Fig. 26

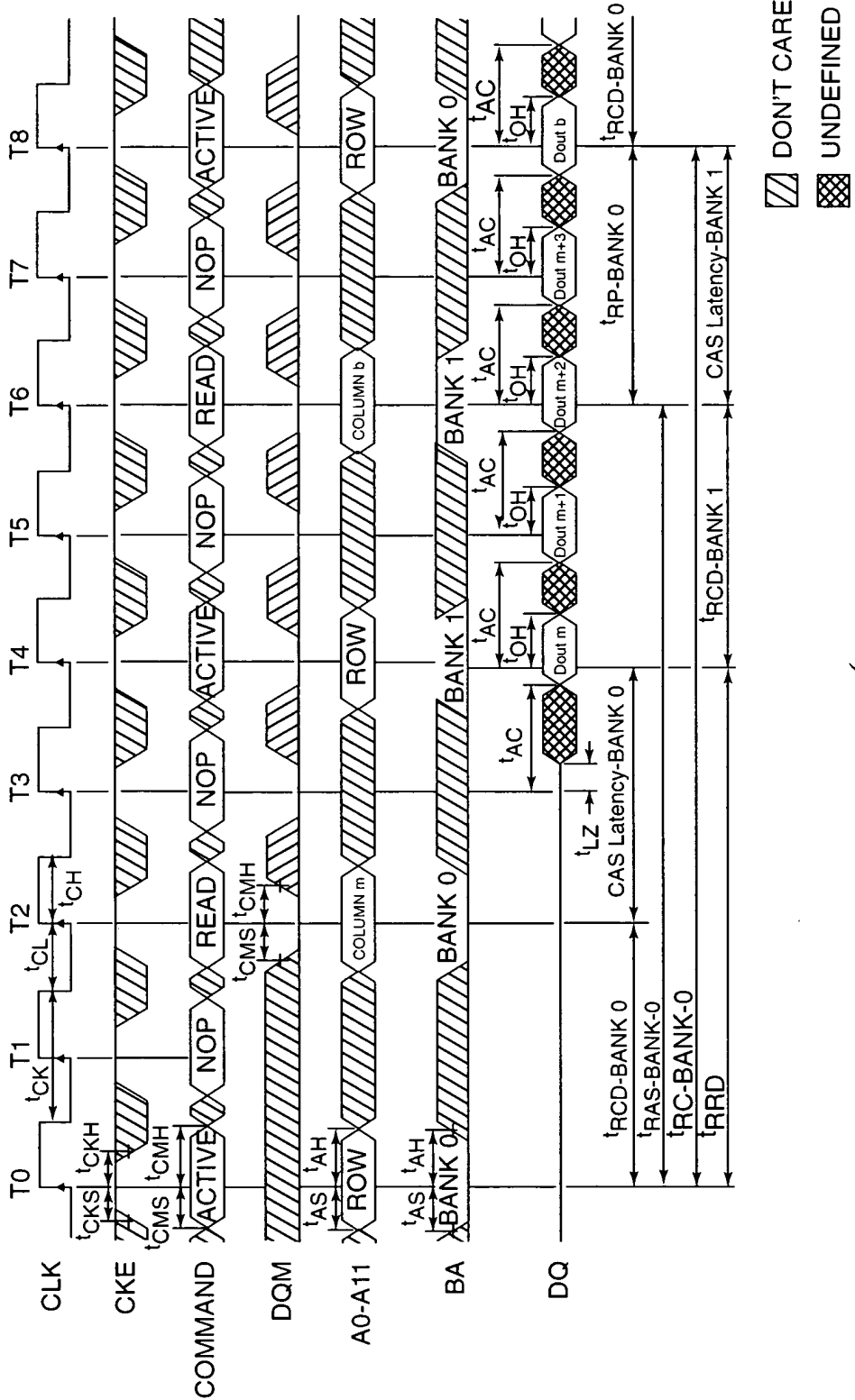


Fig. 27



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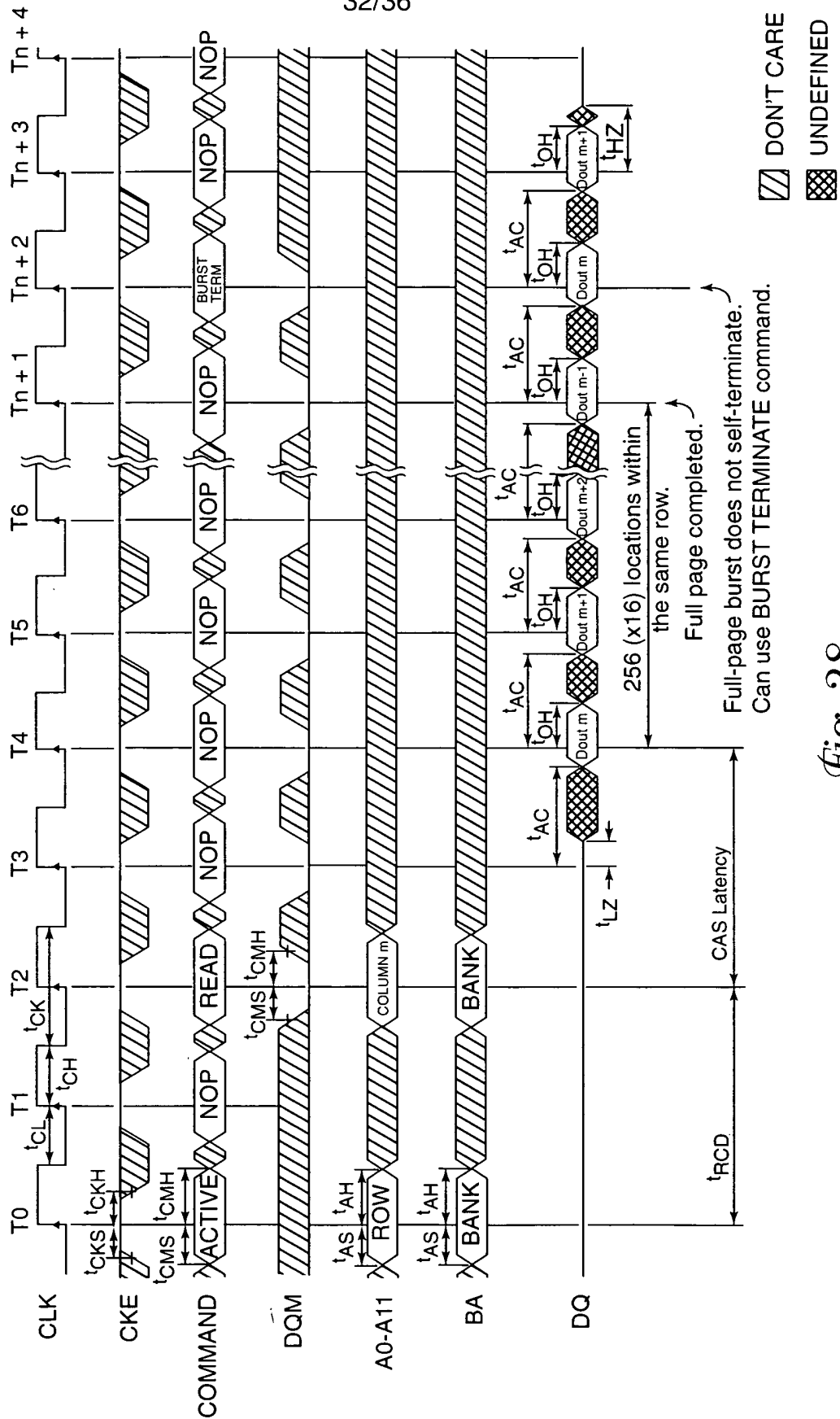


Fig. 28

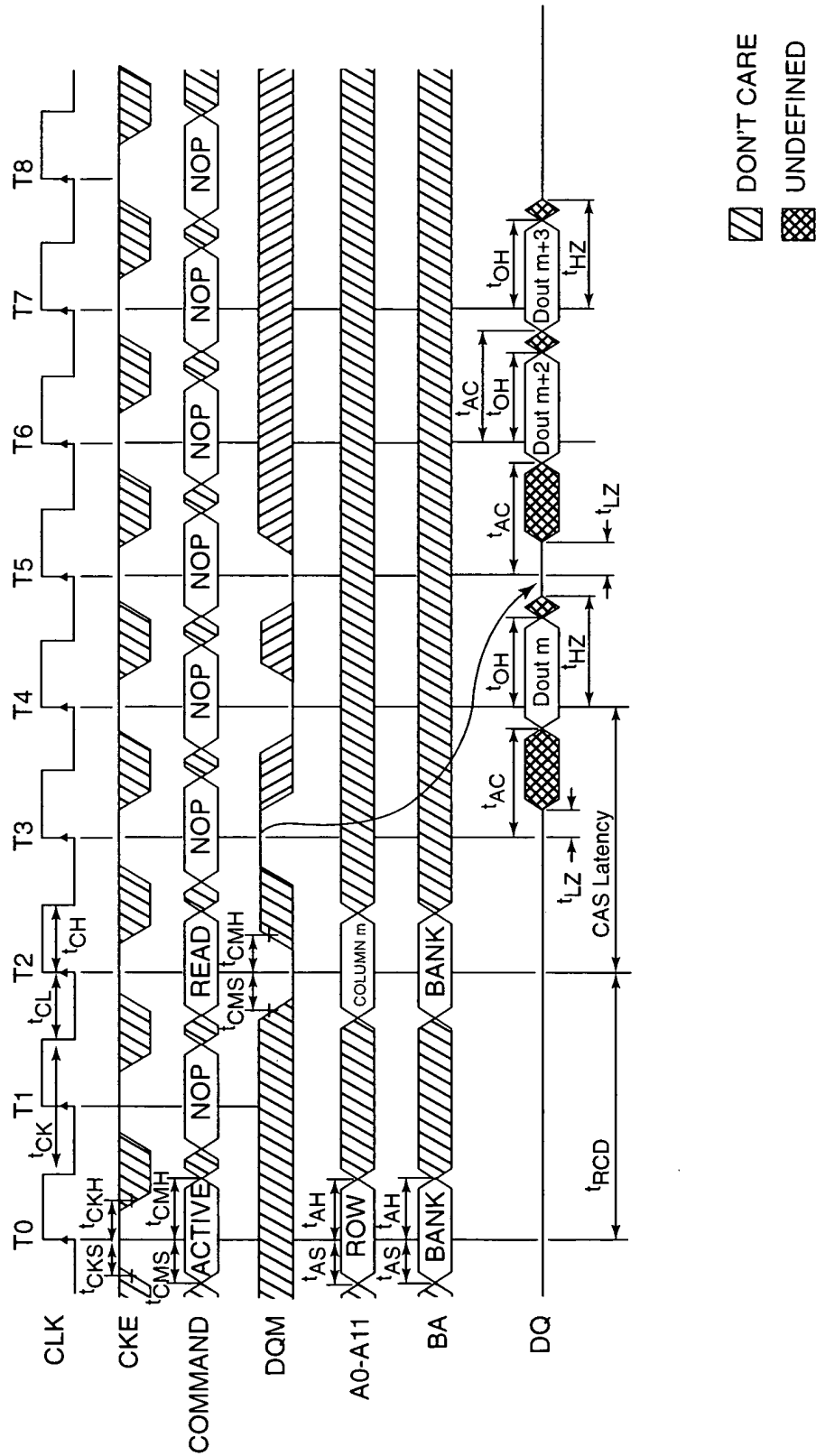


Fig. 29

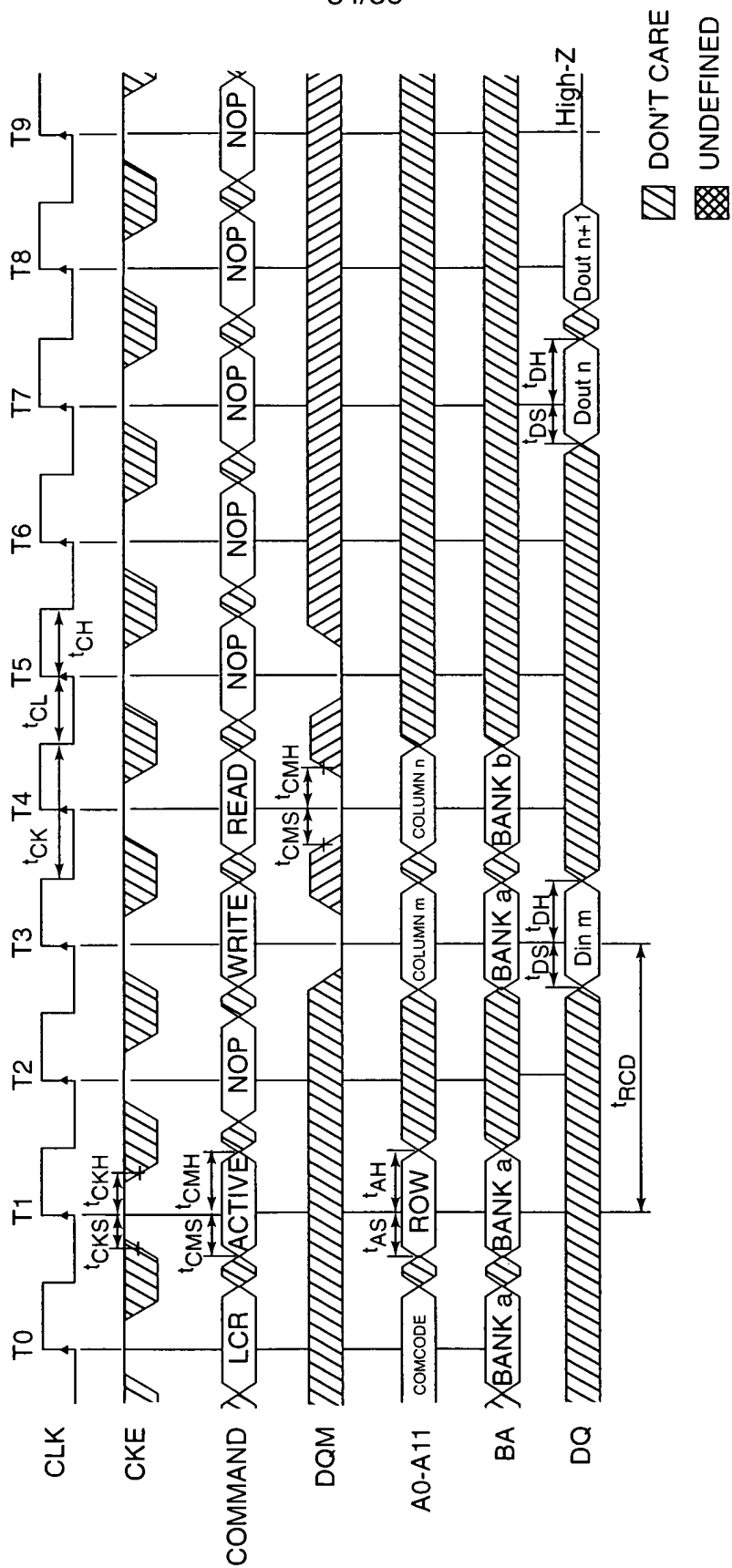


Fig. 30

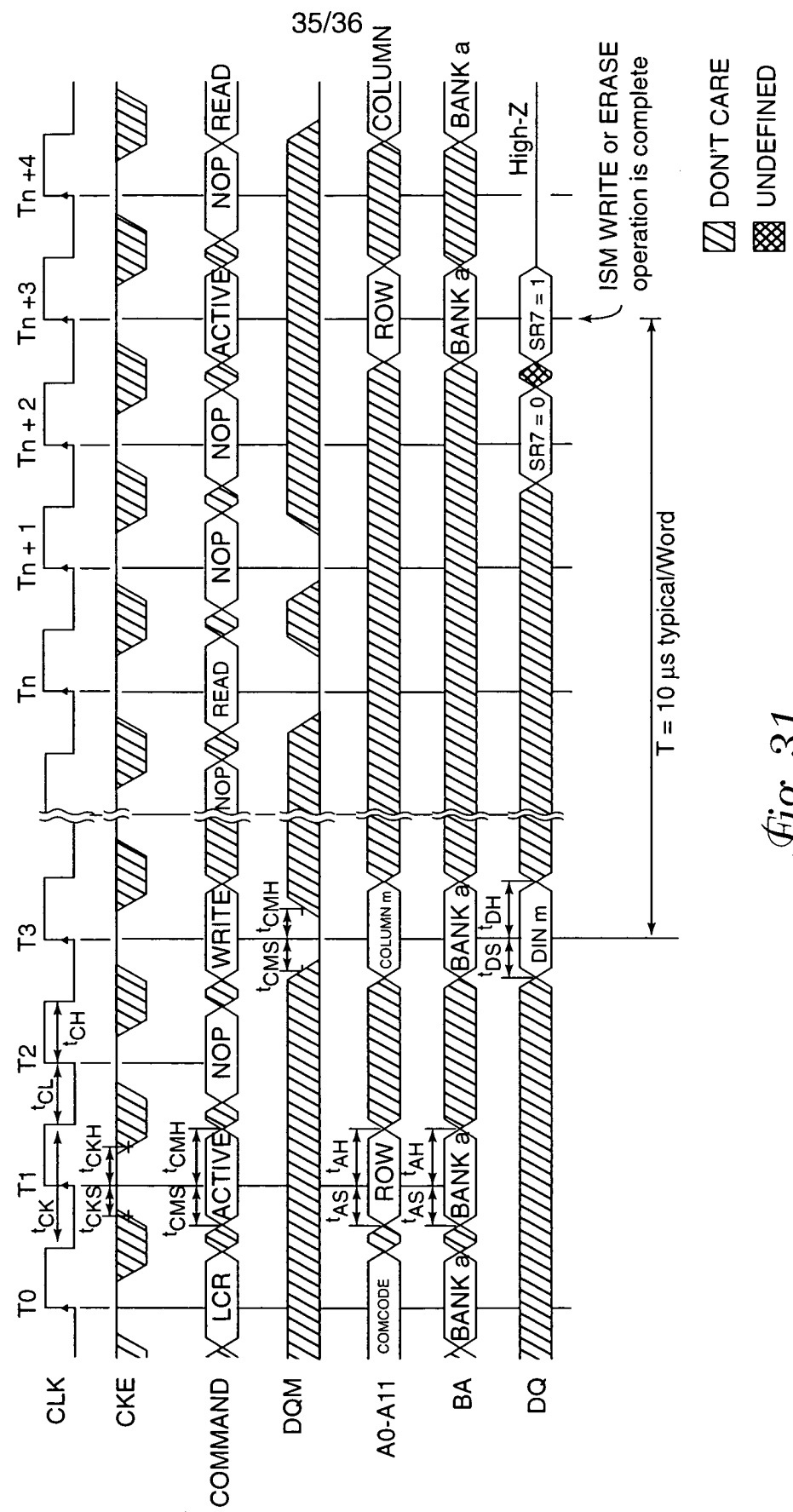


Fig. 31



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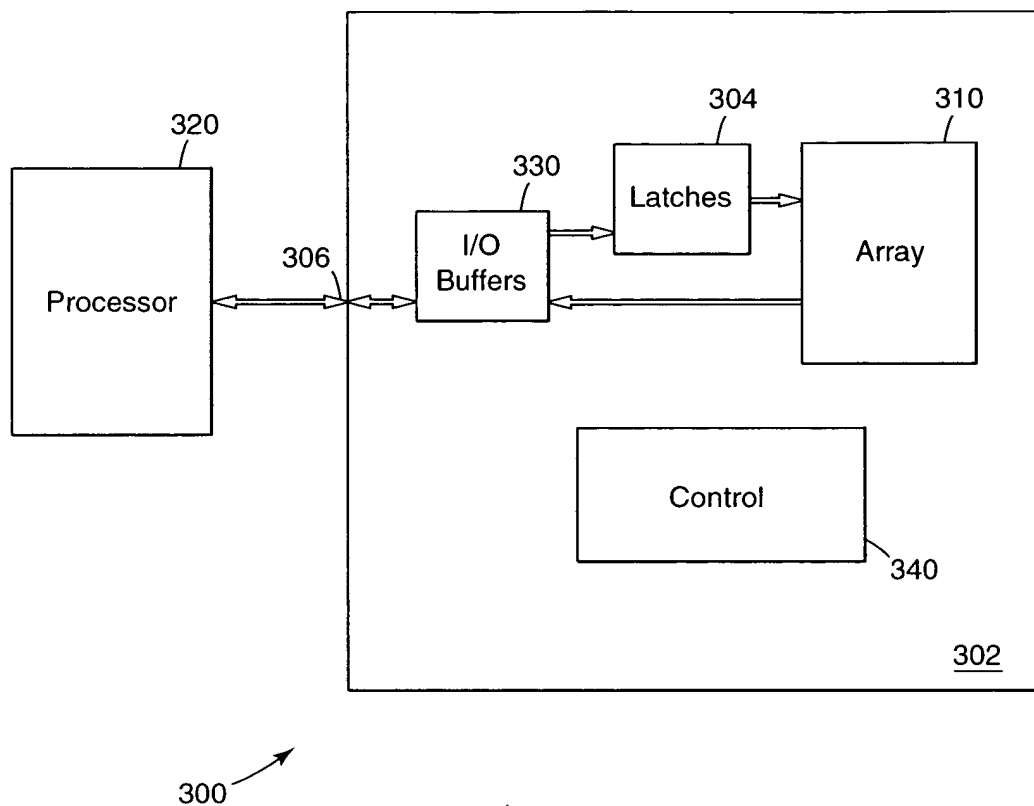


Fig. 32